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	Application No.	Applicant(s)
Notice of Allowability	40/740 272	POLIL OS ET AL
	10/749,373 Examiner	BOULOS ET AL. Art Unit
	VACILIANA I AN	2024
	Wilson Lee	2821
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS
1. This communication is responsive to <u>1/2/04</u> .		
2. The allowed claim(s) is/are <u>1-10</u> .		
3. The drawings filed on <u>02 January 2004</u> are accepted by the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus		049) attached
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1/2/04, 9/27/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit 	_	re ment/Comment ent of Reasons for Allowance
of Biological Material	9.	Wilson Lee Primary Examiner Art Unit: 2821

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Allowable subject matter

Claims 1-10 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art neither discloses nor suggests the following limitations, in combination with the remaining elements disclosed in claims 1 and 10:

- an interconnection circuit interposed between the first and second terminals of the lower frequency output of the second power supply and the terminals of the second induction coils, to connect the second induction coils in a series and/or parallel arrangement between the first and second terminals in order to substantially match an input impedance of the second induction coils with an output impedance of the second power supply; and inductively apply energy to the gaseous substance supplied into the axial chamber such as required by claims 1 and 10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Schofield et al. (6,568,215) discloses a method and apparatus for melting a particulate material comprising a plasma torch and an induction heater.

Markunas et al. (6,552,295) discloses a plasma furnace disposal comprising a

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tuned circuitry that converts the RF energy to the desired impedance level demanded by the induction coupled load. Smith et al. (6,388,226) discloses a toroidal low-field reactive gas source comprising complex matching networks to match the impedance of the generator to the plasma source but. Harker et al. (5,349,154) discloses a microwave generated plasma flame comprising microwave source and waveguide including a means for matching the impedance of source with the impedance of cavity.

The references cited above fail to disclose to match an input impedance of the second induction coils with an output impedance of the second power supply.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Wilson Lee whose telephone number is (571) 272-1824.

Papers related to Technology Center 2800 applications may be submitted to Technology Center 2800 by facsimile transmission. Any transmission not to be considered an official response must be clearly marked "DRAFT". The official fax number is (703) 872-9306.

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Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wilson Lee

Primary Examiner

U.S. Patent & Trademark Office

Bordie

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